Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 1 / 18 Replaced revision:1 (Dated 28/08/2020)

EN

DRAP202 - EPOX RIPRESA - Comp A

Safety Data Sheet According to Annex II to REACH - Regulation 2015/830							
SECTION 1. Identification of the su	ubstance/mixture and of the company/undertaking						
1.1. Product identifier							
Code: Product name	DRAP202 EPOX RIPRESA - Comp A						
1.2. Relevant identified uses of the substance of	or mixture and uses advised against						
Intended use	Part of a two-component system - comp A						
1.3. Details of the supplier of the safety data sh	eet						
Name Full address District and Country e-mail address of the competent person responsible for the Safety Data Sheet 1.4. Emergency telephone number	DRACO ITALIANA S.p.A. Via Monte Grappa, 11 D-E 20067 Tribiano (MI) Italia Tel. +39 02.90632917 Fax +39 02.90631976 info@draco-edilizia.it						
For urgent inquiries refer to	Centro Antiveleni di Bergamo 800883300 (Azienda Ospedaliera Papa Giovanni XXII) Centro Antiveleni di Firenze 0557947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica) Centro Antiveleni di Foggia 80018345 (Az. Osp. Univ. Foggia) Centro Antiveleni di Milano 0266101029 (Osp. Niguarda Ca' Granda) Centro Antiveleni di Napoli 0817472870 (Az. Osp. "A. Cardarelli") Centro Antiveleni di Pavia 038224444 (CAV Centro Nazionale di Informazione Tossicologica) Centro Antiveleni di Roma 063054343 (CAV Policlinico "A. Gemelli") Centro Antiveleni di Roma 0649978000 (CAV Policlinico "Umberto I") Centro Antiveleni di Roma 06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA)						

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H411	Toxic to aquatic life with long lasting effects.
toxicity, category 2		

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 2 / 18 Replaced revision:1 (Dated 28/08/2020)

SECTION 2. Hazards identification .../>>

Signal words:	Warning
Hazard statements:	
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statem	ents:
P280	Wear protective gloves / eye protection / face protection.
P273	Avoid release to the environment.
P391	Collect spillage.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P337+P313	If eye irritation persists: Get medical advice / attention.
Contains:	Crystalline silica Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700)
	Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives 2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

opoxi)phenyl]propane 4-3 30 ≤ x < 50 3-5 9456619-26-XXXX	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
3-5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
9456619-26-XXXX	
9456619-26-XXXX	
60-7 9≤x< 30	Substance with a community workplace exposure limit.
8-4	
14- alkyloxy) methyl] deri	vatives
	Skin Irrit. 2 H315, Skin Sens. 1 H317
6-8	
3-00-4	
9485289-22-XXXX	
phenol-F-epichlorohydrii	n and epoxy resins (average molecular weight <= 700)
	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
6-8	· · · · · · · · · · · · · · · · · · ·
9454392-40-XXXX	
60-7 3≤x< 9	STOT RE 1 H372
8-4	
t Annex V	

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Quartz

The substance Quarzo (CAS 14808-60-7), present as such or as part of a mineral filler, is not classified by the supplier as dangerous. However, the supplier declares a percentage of Alpha Quartz (crystalline silica) lower than 1%. The supplier then classifies the Alpha quartz (crystalline silica) as H372 (STOT RE 1). In order to allow a safe use of the mixture, useful information is reported for completeness both to

DRAP202 - EPOX RIPRESA - Comp A

check personal exposure (section 8) and toxicological information (section 11) regarding Quarzo alfa (crystalline silica).

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

DRACO ITALIANA S.p.A. DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 4 / 18 Replaced revision:1 (Dated 28/08/2020)

ΕN

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)
		2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

		2,2-b	is-[4-(2,3-epox	ipropoxi)pheny	/I]propane			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,006	mg/l	
Normal value in marine water 0,001 mg/l								
Normal value for fresh water sediment 0,341 mg/kg								
Normal value for mar	ine water se	diment				0,034	mg/kg	
Normal value of STP	microorgan	isms				10	mg/l	
Normal value for the terrestrial compartment 0,065 mg/kg/d								
lealth - Derived no-eff		•					0 0	
	Effects or	n consumers			Effects on worl	kers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
•	local	systemic	local	systemic	local	systemic	local	systemic
Oral		-		0,5				-
				mg/kg bw/d				
Inhalation				0,87				4,93
mg/m3								mg/m3
Skin				89,3				0,75
				µg/kg				mg/kg
								bw/d

			G	Quartz		
/alue						
Country	TWA/8h		STEL/15	min	Remarks / O	bservations
	mg/m3	ppm	mg/m3	ppm		
FRA	0,1				RESP	
GBR	0,1				RESP	
EU	0,1				INHAL	Quarzo alfa (Dir. 2017/2398)
	3					Polveri tot. fraz. respirabile
	10				INHAL	Polveri tot. fraz. inalabile
	0,025				RESP	Quarzo alfa
	FRA GBR	Country TWA/8h mg/m3 FRA 0,1 GBR 0,1 EU 0,1 3 10	Country TWA/8h mg/m3 ppm FRA 0,1 GBR 0,1 EU 0,1 3 10	Value TWA/8h STEL/15i mg/m3 ppm mg/m3 FRA 0,1 0,1 GBR 0,1 0,1 EU 0,1 0,1 3 10 0	Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm FRA 0,1	Value STEL/15min Remarks / O Mg/m3 ppm mg/m3 ppm FRA 0,1 RESP GBR 0,1 RESP EU 0,1 INHAL 3 10 INHAL

DRAP202 - EPOX RIPRESA - Comp A

SECTION 8. Exposure controls/personal protection/>>

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700)

		bisphenoi-F-ep	bichioronyarin	and epoxy resi	ns (average	molecular weig	nt <= 700)	
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	n water					0,003	mg/l	
Normal value in mari	ne water					0,0003	mg/l	
Normal value for fres	h water sedi	ment				0,294	mg/kg/d	
Normal value for mar	ine water se	diment				0,0294	mg/kg/d	
Normal value for wate	er, intermitte	nt release				0,0254	mg/l	
Normal value of STP	microorgani	sms				10	mg/l	
Normal value for the terrestrial compartment 0,237 mg/kg/d								
lealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				6,25				
				mg/kg bw/d				
				8,7				29,39
Inhalation				0,1				
Inhalation				mg/m3				mg/m3
Inhalation Skin				,		8,3		,
				mg/m3		8,3 µg/cm2		mg/m3

Crystalline silica							
Threshold Limit	/alue						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Ot	bservations
		mg/m3	ppm	mg/m3	ppm		
WEL	GBR	0,1				RESP	
OEL	EU	0,1				RESP	Direttiva (UE) 2017/2398
TLV-ACGIH		3					Polveri tot. fraz. respirabile
TLV-ACGIH		10				INHAL	
TLV-ACGIH		0,025				RESP	fbrp, cncr (plmn)

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

Quartz

Respect the legal exposure limits in the workplace for any type of airborne dust (eg total dust, respirable dust, respirable crystalline silica powder).

In Europe, the binding LEP (occupational exposure limit) for respirable crystalline silica dust has been set by Directive (EU) 2017/2398 to 0.1 mg / m3, measured as TWA (Time Weighted Average, time-weighted average concentration) over 8 hours.

Crystalline silica

Directive (EU) 2017/2398 sets an occupational exposure limit value equal to 0.1 mg / m3 and includes among the processes that involve risks of exposure to carcinogens "the works involving exposure to respirable crystalline silica dust generated by a process of processing ".

The problem of exposure to Free Crystalline Silica (SLC) in the workplace is particularly relevant, as this risk agent is present in numerous work activities. SLC is in fact extremely common in nature and used in a wide range of civil and industrial products. The International Agency for Research on Cancer classified it as a certain carcinogen (group 1) already in 1997, re-evaluated its toxicity data in 2010 confirming its carcinogenicity (Volume 100, part C, IARC Monograph). Source: www.dors.it

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

DRAP202 - EPOX RIPRESA - Comp A

SECTION 8. Exposure controls/personal protection ... / >>

EYE PROTECTIONWear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

Quartz

In case of prolonged exposure to airborne dust concentrations, wear a respiratory protection device that meets the requirements of European or national legislation. The use of partial or complete facial masks with filters against particles of category 2 or 3 (FP2 - FP3) is recommended. See EN 143: 2000 - Respiratory protective devices. Particles filters

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value	Information
Appearance		paste	
Colour		grey	
Odour		characteristic	
Odour threshold		Not available	
pH		Not available	
Melting point / freezing point		Not available	
Initial boiling point	>	100 °C	
Boiling range		Not available	
Flash point	>	60 °C	
Evaporation rate		Not available	
Flammability (solid, gas)		Not available	
Lower inflammability limit		Not available	
Upper inflammability limit		Not available	
Lower explosive limit		Not available	
Upper explosive limit		Not available	
Vapour pressure		Not available	
Vapour density		Not available	
Relative density		1,5 g/cc	
Solubility		Not available	
Partition coefficient: n-octanol/water		Not available	
Auto-ignition temperature		Not available	
Decomposition temperature		Not available	
Viscosity		Not available	
Explosive properties		Not available	
Oxidising properties		Not available	
9.2. Other information			
VOC (Directive 2010/75/EC) :		0,05 % - 0,81 g/litre	
SECTION 10. Stability and reactive	vity		
10.1. Reactivity			

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 7 / 18 Replaced revision:1 (Dated 28/08/2020)

SECTION 10. Stability and reactivity ... / >>

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane

Inhalation: No significant hazards at normal ambient temperatures. Gases or vapors in high concentrations can irritate the respiratory tract.

Ingestion: This product has low toxicity. No adverse effects are expected associated with quantities that may be accidentally ingested. The product irritates the mucous membranes and can cause abdominal discomfort if ingested.

Skin contact: Causes skin irritation. May cause an allergic skin reaction. Prolonged and frequent contact can cause redness and irritation.

Eye Contact: Causes serious eye irritation. Symptoms following overexposure may include the following: Pain or irritation. Copious eye tearing. Redness.

Quartz

Notes on QUARTZ (fine fraction):

Prolonged and / or massive exposure to dust containing respirable crystalline silica can cause silicosis, a nodular fibrosis of the lungs due to the deposition in the alveoli of respirable particles of crystalline silica. Given that the European Union at the time of drafting this safety data sheet does not classify crystalline silica (alpha quartz) as a dangerous substance and that at the moment there are no requests for changes by Member States, the following is notified: Lo IARC (International Agency for Research on Cancer) has included crystalline silica as a human carcinogen since 1997, but stated that human carcinogenicity was not detected in all the industrial circumstances studied. Carcinogenicity may be dependent on the intrinsic characteristics of silica or external factors that can change its biological activity "(IARC Monographs on the evaluation of Caricinogenic Risk to Humans, volume 68 Silica, Silicates, Dust and Organic Fibers - Lyon, 15-22 Oct. 96) The IOM (Institute of Occupational Medicine), stated that "the data resulting from the completed epidemiological investigation are inadequate to determine whether crystalline silica is to be considered carcinogenic to men, it is also possible to note a predisposition to the development of lung cancer in silicotic subjects although it is not possible to determine a direct effect of silica in it "(Scientific Opinion on the Effects of Airborne Silica, A. Pilkington et al., Report TM / 96/08, Institute of Occupational Medicine, Edinburgh Jan, 99). The S.C.O.E.L. (Scientific Committee on Occupational Exposure Limits) in 2002 stated that "the main effect in humans of silica dust is silicosis. There is sufficient information to conclude that the relative risk of cancer is increased in people with silicosis (and apparently not in workers without silicosis exposed to quartz dust in quarries or in the ceramic industry). On the other hand, preventing the onset of silicosis will also reduce the risk of cancer ... "On April 25, 2006 was signed a Voluntary Agreement between the social partners (Social Dialogue Agreement on Silica) at European level, on how to prevent from adopt, in the sectors concerned, to prevent the risks deriving from exposure to respirable crystalline free silica dusts. The agreement entered into force on 25 October 2006.

For crystalline free silica, Directive (EU) 2017/2398 sets a limit value for occupational exposure of 0.1 mg / m3 and includes work involving risks of exposure to carcinogens, including work involving exposure to crystalline silica dust breathable generated by a manufacturing process ". The problem of exposure to Silica Libera Cristallina (SLC) in the workplace is particularly significant, as this risk agent is present in numerous work activities. SLC is in fact extremely common in nature and used in a wide range of civil and industrial products. The International Agency for Research on Cancer has classified it as a certain carcinogen (group 1) as early as 1997, has reassessed its toxicity data in 2010 confirming its carcinogenicity (Volume 100, part C, IARC Monograph). Source: www.dors.it

DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 8 / 18 Replaced revision:1 (Dated 28/08/2020)

SECTION 11. Toxicological information ... / >>

Opinion of the Industrial Minerals Association (IMA), 2014:Since 2010, in accordance with the CLP Regulation, since a harmonized classification for silica is not available, manufacturers of industrial minerals have jointly assessed that the GHS classification for quartz (fine fraction) and cristobalite (fine fraction) is STOT RE category 1 for silicosis risk. As a consequence of this classification, substances and mixtures containing crystalline silica (fine fraction), in the form of identified impurities, additive or single constituent, are classified as: STOT RE 1, if the concentration of quartz (fine fraction) or cristobalite (fine fraction) or cristobalite (fine fraction) or cristobalite (fine fraction) or cristobalite (fine fraction) is between 1 and 10%; If quartz (fine fraction) or cristobalite (fine fraction) in mixtures and substances is less than 1%, no classification is required by law. The decision on the classification of products containing crystalline silica (fine fraction) takes into account the availability of these fine particles.

If a product exists in a form that prevents the fraction of fine particles from becoming airborne (for example in liquid form), this will be taken into account in the classification decision. Therefore, manufacturers of industrial minerals believe that when a mineral classified as STOT RE1 or STOT RE2 due to its fine fraction content of crystalline silica is incorporated into a mixture in liquid form, the fine fraction is no longer available and the classification it would not be justified. [IMA Europe © 2014, http://www.crystallinesilica.eu/content]

Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives Inhalation: May cause respiratory tract irritation. Ingestion: Gastrointestinal symptoms, including stomach pain. Skin contact: Irritating to skin. May cause sensitization by skin contact. Contact with eyes: Irritating to eyes.

Crystalline silica

Prolonged and / or massive exposure to dust containing respirable crystalline silica can cause silicosis, a nodular fibrosis of the lungs due to the deposition in the alveoli of respirable crystalline silica particles. Given that the European Union at the date of preparation of this safety data sheet does not classify crystalline silica (alpha quartz) as a dangerous substance and that at the moment there are no requests for changes in this regard by the Member States, the following is notified: IARC (International Agency for Research on Cancer) has included crystalline silica among human carcinogens since 1997, but specified that human carcinogenicity was not detected in all the industrial circumstances studied. Carcinogenicity can be dependent on the intrinsic characteristics of silica or on external factors that can modify its biological activity "(IARC Monographs on the evaluation of Caricinogenic Risk to Humans, volume 68 Silica, Silicates, Dust and Organic Fibers - Lyon, 15-22 Oct. 96) The IOM (Institute of Occupational Medicine), stated that "the data resulting from the epidemiological investigation carried out are inadequate to determine whether crystalline silica is to be considered carcinogenic for men, it is also possible to note a predisposition to the development of lung cancer in silicotic subjects although it is not possible to determine a direct effect of silica in this "(Scientific Opinion on the Health Effects of Airbone Cristalline Silica, A. Pilkington et al., Report TM / 96/08, Institute of Occupational Medicine, Edinburgh Jan, 99). The S.C.O.E.L. (EU Scientific Committee on Occupational Exposure Limits) in 2002 stated that "the main effect of silica dust in humans is silicosis. There is sufficient information to conclude that the relative risk of cancer is increased in people with silicosis (and apparently not in silicosis-free workers exposed to quartz dust in quarries or in the ceramic industry). On the other hand, preventing the onset of silicosis will also reduce the risk of cancer ... "On 25 April 2006 a Voluntary Agreement was signed between the social partners (Social Dialogue Agreement on Silica) at European level, on the methods of prevention from adopt, in the sectors concerned, to prevent the risks deriving from exposure to respirable free crystalline silica dust. The agreement entered into force on 25 October 2006.

Opinion of the Industrial Minerals Association (IMA), 2014:

Since 2010, in accordance with the CLP Regulation, since a harmonized classification for silica is not available, the producers of industrial minerals have jointly assessed that the GHS classification for quartz (fine fraction) and cristobalite (fine fraction) is STOT RE category 1 for the risk of silicosis. As a consequence of this classification, substances and mixtures containing crystalline silica (fine fraction), in the form of identified impurity, additive or single constituent, are classified as: STOT RE 1, if the concentration of quartz (fine fraction) or cristobalite (fine fraction) is equal to or greater than 10%; STOT RE 2, if the concentration of quartz (fine fraction) or cristobalite (fine fraction) is between 1 and 10%; If the quartz (fine fraction) or cristobalite (fine fraction) is required by law. The decision on the classification of products containing crystalline silica (fine fraction) takes into account the availability of these fine particles.

If a product exists in a form that prevents the fine particle fraction from becoming airborne (e.g. in liquid form), this will be taken into account in the classification decision. Therefore, industrial mineral producers believe that when a mineral classified as STOT RE1 or STOT RE2 due to its crystalline silica fine fraction content is incorporated into a mixture in liquid form, the fine fraction is no longer available and the classification it would not be justified. [IMA Europe © 2014, http://www.crystallinesilica.eu/content]

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

DRACO ITALIANA S.p.A. DRAP202 - EPOX RIPRESA - Comp A

SECTION 11. Toxicological information .../>>

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700)</th>LD50 (Oral)> 2000 mg/kg Rat, OECD 420LD50 (Dermal)> 5000 mg/kg Rat, OECD 401

Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives LD50 (Oral) 17100 mg/kg Rat

2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane LD50 (Oral) LD50 (Dermal)

> 15000 mg/kg Rat 23000 mg/kg Rabbit

Quartz

Acute oral / dermal LD50 of quartz and cristobalite greater than 2000 mg / kg

Acute toxic inhalation

Lack of dose-specific acute toxicity data allowing categorical decisions on the classification of acute inhalation toxicity of 100% crystalline silica forms. Acute inhalation toxicity not expected based on study values according to OECD requirements, with substance containing 45% cristobalite and no lethality reported. No further testing is warranted in the interest of animal welfare.

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) Acute toxicity - inhalation: in accordance with Annex VII of the REACH Regulation, it is not necessary to conduct the acute toxicity study by inhalation absorption, since oral and dermal absorption studies are available for this substance.

In a rat study according to the OECD standard n. 402 the dermal LD50 was> 2000 mg / kg. In several acute dermal toxicity studies in rabbits, LD50 was> 2000 mg / kg. In a rabbit study a LD50 value of 23 grams / kg was reported.

Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives Acute toxicity - inhalation: No mortality was observed in rats exposed for 7 hours to saturated vapor (150 mg / m3). LC50 (4h) 0.206 mg / I, Inhalation, Dusts / mists, Rat (0 Death.)

SKIN CORROSION / IRRITATION

Causes skin irritation

2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane Causes skin irritation.

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) Result: Skin - erythema / eschar 404 Acute Dermal Irritation / Corrosion Species: rabbit Score: 0.7 Exposure: 4 h Observation: 72 h

Result: Skin - edema 404 Acete Dermal Irritation / Corrosion Species: rabbit Score: 0 Exposure: 4 h Observation: 4-504 h

Result: eyes - corneal opacity 405 Acute Eye Irritation / corrosion Species: Rabbit Score: 0 Observation: 1 - 168 h

Result: eyes - Injury of the iris 405 Acute Eye Irritation / Corrosion Species: Rabbit

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 9 / 18 Replaced revision:1 (Dated 28/08/2020) ΕN

DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 10 / 18 Replaced revision:1 (Dated 28/08/2020)

SECTION 11. Toxicological information/>>

Score: 00bservation: 1 - 168 h Result: eyes - Redness of the conjunctiva 405 Acute Eye Irritation / Corrosion Species: rabbit Score: 0 Observation: 1 - 168 h Result: eyes - conjunctiva edema 405 Acute Eye Irritation / Corrosion Species: rabbit Score: 0 Observation: 1 - 168 h Result: Skin - Slight irritation Species: rabbit Exposure: 24 h Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives Result: Skin - Primary index of skin irritation (PDII) OTS 798.4450 Acute Dermal Irritation Species: Rabbit Score: 4.1 Exposure: 24 h Observation: 72 h Result: Skin - Primary Index of Skin Irritation (PDII) 404 Acute Dermal Irritation / Corrosion Species: Rabbit Score: 5.75 Exposure: 24 h Observation: 72 h Result: eyes - corneal opacity 405 Acute Eye Irritation / Corrosion Species: Rabbit Score: 2 Observation: 1 - 24 h Species: Skin - Moderately irritating Species: Rabbit Exposure: 24 h SERIOUS EYE DAMAGE / IRRITATION Causes serious eye irritation 2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane Causes serious eye irritation. **RESPIRATORY OR SKIN SENSITISATION** Sensitising for the skin Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) Species: rabbit Test: OECD 405 Result: no eye irritation Skin sensitization 2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane May cause an allergic skin reaction. Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700)

The Buehler method was used to assess the skin sensitization potential of the liquid epoxy BPFDGE. Ten male guinea pigs were given 0.4 ml of the test substance topically once a week for three weeks. A positive control of BPFDGE liquid epoxy resin was used on ten additional animals. The stimulation phase began two weeks later with the addition of 5 animals exposed to 0.4ml of liquid BPFDGE liquid epoxy resin. The negative control had 0 positive reactions; BPFDGE liquid epoxy resin produced positive reactions in 4 out of 10 guinea pigs and the positive control had 8 out of ten positive reactions. Under the conditions of this study, the test material resulted in delayed hypersensitivity in guinea pigs.

Route of exposure: skin

DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 11 / 18 Replaced revision:1 (Dated 28/08/2020)

SECTION 11. Toxicological information .../>>

Species: mouseMethod: OECD 429 Result: can cause sensitization in contact with the skin

Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives

In a sensitization study with the Buehler method carried out according to the test specification OTS 870.2600 of the US EPA, positive skin reactions were observed in 20/20 guinea pigs. An extreme sensitizer in a study with maximization test on guinea pig conducted according to the OECD test specification No. 406.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

Quartz

Quartz has genotoxic and mutagenic effects mainly due to inflammatory processes. Respirable quartz did not cause increases in HPRT mutations in epithelial cells of the lungs of rats in vitro.

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) Bisphenol F diglycidyl ether induced a gene mutation in the Ames / Salmonella mutation test and chromosomal aberrations in human lymphocytes in multiple independent GLP studies conducted according to test guidelines. Furthermore, the structural analog, bisphenol A diglycidyl ether (BPADGE), induced a significant increase in the frequency of mutations in cultured L5178Y mouse lymphoma cells, supporting the other conclusions. Therefore, BPFDGE is genotoxic in vitro.When the genotoxic potential of bisphenol F diglycidyl ether was evaluated in multiple GLP compliant in vivo tests, including mouse micronucleus tests, UDS in vivo / in vitro tests, and MutaMouse on rat, no evidence of genotoxicity was observed. Results from other in vivo genotoxicity tests also support these negative results for BPFDGE. It is concluded that bisphenol F diglycidyl ether is not genotoxic in vivo.

In vitro genotoxicity: Metabolic activation: with or without metabolic activation Method: OECD 471 Result: positive

Metabolic activation: with or without metabolic activation Method: OECD 473 Result: positive

Metabolic activation: with or without metabolic activation Method: OECD 476 Result: positive

Genotoxicity in vivo: Type of gellule: germs Method of application: oral Result: negative

Type of gellula: somatic Method of application: oral Dose: 0 - 5000 mg / kg Result: negative

Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives

Positive in a bacterial mutation test conducted according to the OECD test specification No. 471 in an experimental Salmonella TA1535 strain with and without metabolic activation with S9. Negative in a gene mutation test on Chinese hamster ovary cells (CHO) HGPRT conducted according to the OECD test specification No. 476 up to cytotoxic levels with and without metabolic activation with S9. Negative in a gene mutation assay on L5178Y / TK mouse lymphoma cells tested up to cytotoxic dose levels. Negative by micronucleus induction (chromosomal damage) in a mouse study conducted according to OECD specification No. 474 up to a high dose of intraperitoneal injection of 4.0 grams / kg. Negative in a study of chromosomal aberrations on rat bone marrow conducted similarly to the OECD test specification No. 475 by intraperitoneal injection, up to a high dose of about 700 mg / kg.

Crystalline silica

Quartz has genotoxic and mutagenic effects mainly due to inflammatory processes. Respirable quartz did not cause increases in HPRT mutations in epithelial cells of the lungs of rats in vitro.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

DRAP202 - EPOX RIPRESA - Comp A

SECTION 11. Toxicological information ... / >>

Quartz

mg/kg/die.

The risk of excess lung cancer is only proven for high occupational exposures to respirable crystalline silica. The risk of excess lung cancer is limited to patients with silicosis.

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) È stata valutata la capacità del Bisfenolo F diglicidiletere (BPFDGE) di indurre tumori locali e sistemici in uno studio di 24 mesi con test cutaneo ("skin painting") sul topo. Il trattamento cutaneo di topi per due volte alla settimana con una soluzione fino al 10% di diglicidiletere bisfenolo F (BPFDGE) non ha indotto alcun risultato negativo di incidenza di tumori o effetti cutanei locali. Pertanto, il BPFDGE non è da considerare cancerogeno per il topo nelle condizioni di questo studio. Il NOAEL è stato stimato pari a circa 800

Specie: ratto, maschio e femmina Modalità di applicazione: orale Tempo diesposizione: 24 mesi Dosi: 15 mg/kg Frequenza del trattamento: 7 al giorno Metodo: OECD 453 Risultato: negativo

Specie: topo, maschio Modalità di applicazione: dermico Tempo di esposizione: 24 mesi Dosi: 1 mg/kg Frequenza del trattamento: 3 al giorno Metodo: OECD 453 Risultato: negativo

Specie: ratto, femmina Modalità di applicazione: dermico Tempo di esposizione: 24 mesi Dosi: 1 mg/kg Frequenza del trattamento: 5 al giorno Metodo: OECD 453 Risultato: negativo

Crystalline silica

The excess risk of lung cancer is only proven for high occupational exposures to respirable crystalline silica. The excess risk of lung cancer is limited to patients with silicosis.

ACGIH categorizes free crystalline silica as A2, a suspected human carcinogen. Human data, although adequate for quality, are controversial or insufficient to classify the agent as a human carcinogen; or, the agent was found to be carcinogenic in experimental animals: at dose levels, by routes of administration, at sites, by histological type, or by mechanisms considered relevant to worker exposure. This classification is applied primarily when there is reduced evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals of relevance to humans.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Quartz

Silica is essential to normal body functions and is ingested orally with the consumption of foods containing silica in nature. A first mono-generational study on Wistar rats does not show the occurrence of adverse effects deriving from the long-term ingestion of silica-rich water.

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700)

The bisphenol A diglycidylether (DGEBPA) has been tested for its embryo / fetal toxicity and teratogenicity in pregnant rabbits. The DGEBPA was applied daily to the back (depilated) of white New Zealand rabbits at doses of 0 (polyethylene glycol, vehicle control), 30, 100 or 300 mg / kg of body weight / day at a volumetric dose of 1 ml / kg of body weight / day on days 6 to 18 of gestation. Twenty-six inseminated rabbits were used per dosage group, obtaining a minimum of 20 pregnant rabbits per exposure level. An occlusive bandage of absorbent gauze and non-absorbent cotton was placed on the dosing area on the back of each rabbit. The bandage was held in place for a minimum of 6 hours / day with a lycra / spandex protective cover. Following the period of occlusion the bandage and the protective wrapper were removed. Maternal toxicity effects were observed among pregnant rabbits in the 300 mg / kg dose group, as evidenced by moderate to severe erythema, fissures, haemorrhages and mild edema at the site of exposure. Similar, but less severe skin lesions were observed in pregnant rabbits in the 100 mg / kg / day exposure group. Effects on the skin (mild erythema) observed in pregnant rabbits in the 30 mg / kg / day group were not considered toxicologically significant. No evidence of embryo / fetotoxicity or teratogenicity was observed at any dose, which results in a level at which no effect (NOEL) is observed at an embryonic / fetal level of 300 mg / kg body weight / day.

DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 13 / 18 Replaced revision:1 (Dated 28/08/2020)

SECTION 11. Toxicological information .../>>

Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives In a dermal toxicological study conducted in the rat according to the US EPA OTS 798.4420 method and according to the OECD test specification No. 414, the NOAEL for adverse effects on both mother and development was above the high dose level of 200 mg / kg / day.

Crystalline silica

Silica is essential to normal body functions and is ingested orally with the consumption of foods containing silica in nature. A first mono-generational study on Wistar rats does not show the occurrence of adverse effects deriving from the long-term ingestion of silica-rich water.

Adverse effects on sexual function and fertility Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) Species: rat, male and female Method of application: oral Method: OECD 416 Result: There was no effect on fertility and early embryonic development.

Adverse effects on development of the offspring Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) Species: rabbit, female Method of application: dermal General toxicity in mothers: no level of harmfulness observed: 30 mg / kg body weight Result: no teratogenic effect

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

May cause damage to organs

Quartz

Prolonged or massive exposure to dust containing respirable crystalline silica can cause silicosis, a nodular pulmonary fibrosis caused by the deposition in the lungs of respirable fine particles of crystalline silica.

There is substantial evidence to support the fact that the increased risk of cancer would be limited to patients already suffering from silicosis. The protection of workers against silicosis must be guaranteed by respecting the limits of occupational exposure in accordance with the law and possibly adopting additional risk management measures.

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) NOAEL: 250 mg / kg Species: rat, male and female Method of application: ingestion Exposure time: 13 weeks Number of exposures: 7 d Mode: subchronic toxicity

Crystalline silica

Prolonged or massive exposure to dust containing respirable crystalline silica can cause silicosis, a nodular pulmonary fibrosis caused by the deposition in the lungs of respirable fine particles of crystalline silica.

There is substantial evidence to support the fact that the increased risk of cancer would be limited to patients already suffering from silicosis. The protection of workers against silicosis must be guaranteed by respecting the limits of occupational exposure in accordance with the law and possibly adopting additional risk management measures.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane Toxic to aquatic life with long lasting effects. ΕN

DRAP202 - EPOX RIPRESA - Comp A

SECTION 12. Ecological information ... / >>

12.1. Toxicity

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) EC50 (Selenastrum capricornutum): 1.8 mg / I Exposure time: 72 h Static test Method: OECD 201

CI50 (activated sludge)> 100 mg / I Exposure time: 3 h Static test

Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives LC50, 96 hour:> 5000 mg / I, Oncorhynchus mykiss (rainbow trout) LC50, 96 hour: 1800 mg / I, Lepomis macrochirus (Perch) EC50, 72 hours: 843 mg / I, Pseudokirchneriella subcapitata NOEC, 72 hours: 500 mg / I, Pseudokirchneriella subcapitata EC50, 3 hours:> 100 mg / I, Activated sludge

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700)</th>LC50 - for Fish2,54 mg/l/96h FishEC50 - for Crustacea2,55 mg/l/48h 202 Daphnia sp. Acute Immobilization Test and Reproduction TestEC50 - for Algae / Aquatic Plants> 1000 mg/l/72h 201 Alga, Growth Inhibition TestChronic NOEC for Crustacea0,3 mg/l Daphnia magna, 21 d, OECD 211 semistatic

2 mg/l/96h Oncorhynchus mykiss

11 mg/l/72h Selenastrum capricornutum

4,2 mg/l Selenastrum capricornutum

1,8 mg/l/48h Daphnia magna

0,3 mg/l Daphnia magna

Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

> 5 g/l 203 Fish, Acute Toxicity Test. Bluegill 7,2 mg/l/48h 202 Daphnia sp. Acute Immobilization Test and Reproduction Test 844 mg/l/72h 201 Alga, Growth Inhibition Test

2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants

12.2. Persistence and degradability

2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane Degradazione 12%: 28 giorno OECD 302B

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) Bisphenol F diglycidyl ether was not readily biodegradable under the conditions of the screening studies according to OECD test specifications Nos. 301 B and 301 D. The maximum rate of biodegradation observed in one of the OECD 301 B studies was 16% per 10 mg / the 28 days of contact.

Inoculum: activated sludge Concentration: 3 mg / I Result: not biodegradable Biodegradation: approx. 0% Exposure time: 28 d Method: Directive 67/548 / EEC Annex V C.4.E

Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives

In a study conducted according to OECD Test Specification No. 301 F, biodegradation was 57-655 after 7 days. However, in a study conducted according to OECD Test Specification No. 301 D (unopened bottle) biodegradation was only 34.7% after 28 days. 87% degradation: 28 days OECD 301F

2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane NOT rapidly degradable

12.3. Bioaccumulative potential

ΕN

DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 15 / 18 Replaced revision:1 (Dated 28/08/2020)

SECTION 12. Ecological information ... / >>

2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane Potentially bioaccumulative	
Reaction product: bisphenol-F-epichlorohydrin and BCF: 150 150.00 Potential: low	epoxy resins (average molecular weight <= 700)
Oxirane, mono [(C12-14- alkyloxy) methyl] derivativ BCF: 160 - 263 160.00 Potential: low	es
Reaction product: bisphenol-F-epichlorohydrin and Partition coefficient: n-octanol/water BCF	epoxy resins (average molecular weight <= 700) 2,7 Log Kow 150
Oxirane, mono [(C12-14- alkyloxy) methyl] derivativ Partition coefficient: n-octanol/water	es 3,77 Log Kow
2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane Partition coefficient: n-octanol/water	3,242 Log Kow Extimated value
12.4. Mobility in soil	
2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane Low mobility. Koc: 1800 - 4400 @ 20 ° C Estimated value.	

Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight <= 700) Partition coefficient: soil/water 4460 OECD 121

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 3082

ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.
IATA:	In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 16 / 18 Replaced revision:1 (Dated 28/08/2020)

SECTION 14. Transport information ... / >>

14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane;
	Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight \leq 700))
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane;
	Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight \leq 700))
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-bis-[4-(2,3-epoxipropoxi)phenyl]propane;
	Reaction product: bisphenol-F-epichlorohydrin and epoxy resins (average molecular weight ≤ 700))

14.3. Transport hazard class(es)

ADR / RID:	Class: 9	Label: 9	
IMDG:	Class: 9	Label: 9	
IATA:	Class: 9	Label: 9	

14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID:	Environmentally Hazardous	1
IMDG:	Marine Pollutant	•
IATA:	Environmentally Hazardous	•

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 90		Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: -	Limited Overstities, 51	
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Pass.:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	
14.7. Transport in bul	k according to Annex II of Marpo	I and the IBC Code	

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
Seveso Category - Direct	ive 2012/18/EC:	E2
<u>Restrictions relating to the</u> Product	e product or cont	ained substances pursuant to Annex XVII to EC Regulation 1907/2006
Point	3 - 40	
Contained substance		
Point	75	Calcium Carbonate
		Reg. no.: Esentato ai sensi dell'allegato V.7

DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 17 / 18 Replaced revision:1 (Dated 28/08/2020)

ΕN

SECTION 15. Regulatory information .../>>

Point	75	Oxirane, mono [(C12-14- alkyloxy) methyl] derivatives			
		Reg. no.: 01 2119485289-22-XXXX			
Point	75	CALCIUM CARBONATE			
Point	75	Nafta solvente (petrolio), aromatica leggera			
		Reg. no.: 01-2119455851-35-XXX			
Demulation (EC) N	- 0040/4440 th				
	0. 2019/1148 - on tr	ne marketing and use of explosives precursors			
Not applicable					
Substances in Car	ndidate List (Art. 59	REACH)			
		bduct does not contain any SVHC in percentage ≥ than 0.1%.			
	<i>,</i> ,				
Substances subject	ct to authorisation (/	Annex XIV REACH)			
None					
	ct to exportation rep	orting pursuant to (EC) Reg. 649/2012:			
None					
Substances subje	ct to the Rotterdam	Convention			
None		<u>Convention.</u>			
None					
Substances subje	ct to the Stockholm	Convention:			
None					
Healthcare control					
		ent must not undergo health checks, provided that available risk-assessment data prove that the risks			
related to the work	related to the workers' health and safety are modest and that the 98/24/EC directive is respected.				
45.0 Chamical aster					
15.2. Chemical safe	ty assessment				
A chemical safety	assessment has not	t been performed for the preparation/for the substances indicated in section 3.			
SECTION 16. 0	Sthar informe	tion			
SECTION 16. (Juler morma				
Text of hazard (H)	indications mention	ed in section 2-3 of the sheet:			
()					

STOT RE 1 STOT RE 2	Specific target organ toxicity - repeated exposure, category 1 Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation

DRAP202 - EPOX RIPRESA - Comp A

Revision nr.2 Dated 20/07/2021 Printed on 20/07/2021 Page n. 18 / 18 Replaced revision:1 (Dated 28/08/2020)

SECTION 16. Other information ... / >>

- PEC: Predicted environmental Concentration- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV Atp. CLP)
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- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 03 / 08 / 09 / 11 / 14 / 15.